This document details the changes in the SEDD Specification Data Element Dictionary (DED) (Appendix A) from Draft Version 5.0 to Draft Version 5.1 as applicable to the Contract Laboratory Program's SOM01.0. Additional changes will be added to this document as the general Data Type Definitions (DTDs), based on Draft Version 5.1, are completed and posted.

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
AmountAddedUncertaintyType	LimitedList	Measurement	The confidence interval for the AmountAddedUncertainty (e.g., 1Sigma, 2Sigma, 3Sigma).	The confidence interval for the AmountAddedUncertainty.	Analyte
AnalysisType	LimitedList	Identification	A client defined code used to define the type of analysis. This code is used to identify a single analysis from multiple analyses that are used to generate a single result.	A client defined identifier used to define the type of analysis. This identifier is also used to uniquely identify a single analysis from multiple analyses that are used to generate a single result.	Analysis AnalysisGroup
AnalyteName	LimitedList	Identification	A common name for an analyte.	The published reference name for the analyte.	ReportedResult Analyte AnalyteComparison PeakComparison
AnalyteNameContext	LimitedList	Identifaction	New to 5.1	The published reference source for AnalyteName.	ReportedResult Analyte AnalyteComparison PeakComparison
AnalyteType	LimitedList	Identification	A client defined code that identifies the type of analyte reported.	A client defined identifier that identifies the type of analyte reported.	ReportedResult Analyte

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
AnalyzedDateTimeZone	LimitedList	Tracking	New to 5.1	Time zone for AnalyzedDate.	Analysis
AnalyzedEndDateTimeZone	LimitedList	Tracking	New to 5.1	Time zone for AnalyzedEndDate	Analysis
CalibrationType	Limitedlist	Description	The calibration model used to define the initial calibration curve for a method (e.g., Average_Response_Factor, Average_Calibration_Fact or, Linear_Regression, Linear_Regression_With_Zero_Force, Quadratic_Regression_With_Zero_Force).	The calibration model used to define the initial calibration curve for a method.	Analyte Peak
CleanedUpDateTimeZone	LimitedList	Tracking	New to 5.1	Time zone for CleanedUpDate.	PreparationPlusCleanup
CleanedUpEndDateTimeZone	LimitedList	Tracking	New to 5.1	Time zone for CleanedUpEndDate	PreparationPlusCleanup
CleanupType	LimitedList	Identification	A client defined code used to define the type of cleanup. This code is used to identify the specific cleanup procedure used.	A client defined identifier used to define the type of cleanup. This identifier is used to identify the specific cleanup procedure used.	PreparationPlusCleanup InstrumentQC

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
ClientAnalyteID	Identifier	Identification	A client defined code for an analyte.	A client defined identifier for an analyte.	ReportedResult Analyte AnalyteComparison PeakComparison
ClientAnalyteName Format:Text	Text	Identifiaction	New to 5.1	A client defined common name for an analyte.	ReportedResult Analyte AnalyteComparison PeakComparison
ClientDataPackageID	Identifier	Tracking	New to 5.1	A client defined term for this data deliverable package.	Header
ClientDataPackageName	Text	Tracking	New to 5.1	A client defined title for this data deliverable package.	Header.
ClientDataPackageVersion	Text	Tracking	New to 5.1	If the lab resubmits a data package at the client=s request, this field can be used to distinguish the different versions.	Header
ClientInstrumentQCType	LimitedList	Identification	New to 5.1	A client defined identifier used to define how a given InstrumentQC sample(s) was implemented. For example, whether one or two mixes were used to perform an initial calibration or a continuing calibration verification.	InstrumentQC

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
ClientMethodID Applicable Node(s): SamplePlusMethod	Text	Identification	A client defined code identification number for the method used by the lab to analyze the sample. The complete code for each method may be a composite of the method source along with the method number.	A client defined method identification number for the method used by the lab to analyze the sample.	SamplePlusMethod InstrumentQC Handling PreparationPlusCleanup Analysis
ClientMethodName	Text	Identification	A client defined descriptive name for the method.	A client defined method name for the method used by the lab to analyze the sample.	SamplePlusMethod InstrumentQC Handling PreparationPlusCleanup Analysis
ClientMethodReference	Text	Identification	New to 5.1	The reference method source for the ClientMethodID and ClientMethodName.	SamplePlusMethod InstrumentQC Handling PreparationPlusCleanup Analysis
ClientMethodType	LimitedList	Identification	A client defined code used to define the method type or technology (e.g., GCMS, GCMS_SIM, ICP, IR).	The method type or technology for the method used by the lab to analyze the sample.	InstrumentQC Handling PreparationPlusCleanup Analysis
CollectedDateTimeZone	LimitedList	Tracking	New to 5.1	Time zone for CollectedDate	SamplePlusMethod

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
CollectedEndDateTimeZone	Limited list	Tracking	New to 5.1	Time zone for CollectedEndDate	SamplePlusMethod
CountingErrorType	LimitedList	Measurement	The confidence interval for the CountingError (e.g., 1Sigma, 2Sigma, 3Sigma).	The confidence interval for the CountingError.	ReportedResult Analyte Peak
CreatedDateTimeZone	LimitedList	Tracking	New to 5.1	Time zone for CreatedDate.	SamplePlusMethod
EDDImplementationID	LimitedList	Identification	A value that identifies the specific implementation of an electronic data deliverable.	A value that identifies the specific implementation (DTD or Schema) of an electronic data deliverable	Header
HandledDateTimeZone	LimitedList	Tracking	New to 5.1	Time zone for HandledDate.	Handling
HandledEndDateTimeZone	Date	Tracking	New to 5.1	Time zone for HandledEndDate	Handling
InjectionVolume	Numeric	Measurement	The volume of sample injected into the instrument.	The volume of sample injected/purged into the instrument or onto a specific column when an injection is split between two or more columns.	Analysis

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
IntermediateResult	Numeric	Measurement	New to 5.1	This value represents the results of this analysis, not for a method, and would normally not include sample aliquot, dilution or other sample information.	Analyte Peak
IntermediateResultUncertainty	Numeric	Measurement	New to 5.1	The estimated error in the IntermediateResult	Analyte Peak
IntermediateResultUncertaintyType	LimitedList	Measurement	New to 5.1	The confidence interval for the IntermediateResultUncertaint y.	Analyte Peak
IntermediateResultUncertaintyUnits	LimitedList	Measurement	New to 5.1	Units for IntermediateResultUncertaint y.	Analyte Peak
IntermediateResultUnits	LimitedList	Measurement	New to 5.1	Units for IntermediateResult	Analyte Peak
LabAnalyteID	Identifier	Identification	A lab defined code for the analyte.	A lab defined identifier for the analyte.	ReportedResult Analyte PeakComparison AnalyteComparison
LabDataPackageID	Identifier	Tracking	A lab defined code for this data deliverable package.	A lab defined identifier for this data deliverable package.	Header

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
LabQualifiers	Text	Description	A lab assigned string of single letter result qualifiers, based on client defined rules and values.	A lab assigned string of result qualifiers (usually a single character for each qualifier), based on client or lab defined rules and values.	ReportedResult Analyte Peak AnalyteComparison PeakComparison
LabQualifierDefinition	Text	Description	New to 5.1	Definition for the qualifier(s) as reported in LabQualifiers. This data element would be used to report a single definition for a single qualifier. Additional LabQualifierDefinition data elements must be used when more than one qualifier is reported in LabQualifiers.	ReportedResult Analyte Peak AnalyteComparison PeakComparison
LabReceiptDateTimeZone	LimitedList	Tracking	New to 5.1	Time zone for LabReceiptDate	SamplePlusMethod
LabReportedDateTimeZone	LimitedList	Tracking	New to 5.1	Time zone for LabReportedDate.	Header
LabType	LimitedList	Description	New to 5.1	The term used to describe the type of lab analyzing this sample.	SamplePlusMethod
MatrixID			A client defined coder for the sample matrix or media (e.g., soil, water).	An identifier for the general sample matrix or media.	SamplePlusMethod

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
MatrixName	LimitedList	Identification	A description of the sample matrix or media.	A more specific description of the sample matrix or media.	SamplePlusMethod
MethodID	LimitedList	Identification	New to 5.1	The published reference method identification number for the method used by the lab to analyze the sample.	SamplePlusMethod InstrumentQC Handling PreparationPlusCleanup Analysis
MethodName	LimitedList	Identification	New to 5.1	The published reference method name for the method used by the lab to analyze the sample.	SamplePlusMethod InstrumentQC Handling PreparationPlusCleanup Analysis
MethodReference	Limited List	Identification	New to 5.1	The published reference method source for the MethodID and MethodName	SamplePlusMethod InstrumentQC Handling PreparationPlusCleanup Analysis
MethodType Applicable Node(s):	Limited List	Identification	New to 5.1	The method type or technology for the method as used by the lab to analyze the sample.	SamplePlusMethod InstrumentQC Handling PreparationPlusCleanup Analysis
OriginalLabAnalysisID	Identifier	Identification	New to 5.1	The LabAnalysisID of a previous or original analysis this analysis is based on.	Analysis

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
PercentRecovery	Numeric	Measurement	The recovery of an analyte expressed as a percentage of the amount added.	The recovery of an analyte expressed as a percentage of the amount added. If a numeric result cannot be calculated then the PercentRecoveryType data element should be used.	PercentRecovery ReportedResult Analyte Peak
PercentRecoveryType	LimitedList	Measurement	New to 5.1	Would be used to report non- numeric PercentRecovery results when the Percent Recovery was calculated but a numerical value could not be determined.	ReportedResult Analyte Peak
PreparationPlusCleanupType	LimitedList	Identification	New to 5.1	Whether or not the data is related to a preparation or cleanup activity.	PreparationPlusCleanup
PreparationType	LimitedList	Identification	A client defined code used to define the type of preparation. This code is used to identify the specific preparation procedure used	A client defined identifier used to define the type of preparation. This identifier is used to identify the specific preparation procedure used	Analysis PreparationPlusCleanup
PreparedDateTimeZone	LimitedList	Tracking	New to 5.1	Time zone for PreparedDate.	Analysis PreparationPlusCleanup
PreparedEndDateTimeZone	LimitedList	Tracking	New to 5.1	Time zone for PreparedEndDate.	Analysis PreparationPlusCleanup

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
PriorityID	LimitedList	Tracking	A client defined code that identifies the priority assigned to this data. The priority may affect the desired turn around time and the cost of the analysis.	A client defined term that identifies the priority assigned to this data. The priority may affect the desired turn around time and the cost of the analysis.	SamplePlusMethod
QCCategory	LimitedList	Identification	A generic code that specifies the basic properties or category of a method QC sample.	A generic identifier that specifies the basic properties or category of a method QC sample.	SamplePlusMethod
QCType	LimitedList	Identification	The client defined code for the specific type of QC sample used.	The client defined term used to define the specific type of sample being analyzed.	SamplePlusMethod InstrumentQC
ReportingLimitType	LimitedList	Measurement	One of a list of client defined acronyms that specify the type of reporting limit	One of a list of client defined acronyms that specify the type of reporting limit. Example Valid Values: >MDL=, >PQL=, >SQL=.	ReportedResult Analyte Peak
Result	Numeric	Measurement	Reportable result for the analyte.	Reportable final result for the analyte.	ReportedResult Analyte Peak
ResultBasis	LimitedList	Measurement	The basis upon which the results were calculated.	The basis upon which the final results were calculated.	Analysis ReportedResult

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
ResultType	LimitedList	Measurement	Specifies whether the result is equal to (>==), greater than (>>=), or less than (><=) the value reported. Can also be used to report method nonnumeric results such PASS or FAIL, etc.	Specifies whether this analyte was detected or not detected. For positive detections, specifies whether the result is equal to (>==), greater than (>>=), or less than (><=) the value reported. For non-detects, the valid value >Not_Detected= would be used. Can also be used to report method non-numeric results-	ReportedResult Analyte Peak
RPD	Numeric	Measurement	The relative percent difference. The absolute value of the difference of two values as a percentage of their average	The relative percent difference. The absolute value of the difference of two values as a percentage of their average. If a numeric result cannot be calculated then the RPDType data element should be used.	ReportedResult Analyte Peak PeakComparison
RPDType	LimitedList	Measurement	New to 5.1	Would be used to report non- numeric RPD results when the RPD was calculated but a numerical value could not be determined as is possible when one of the two values is not detected.	ReportedResult Analyte Peak

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
ServicesID	Identifier	Tracking	A client defined code for optional services performed for this data. This includes nonstandard work, such as modified detection limits, or changed QC requirements.	A client defined identifier for optional services performed for this data. This includes nonstandard work, such as modified detection limits, or changed QC requirements.	SamplePlusMethod
ValidatorMethodID	Identifier	Validation	The validator defined code for the work it does.	The validator defined code for the method(s) used by the lab to analyze the sample.	SamplePlusMethod
ValidatorMethodName Format:Text Category:Validation	Text	Validation	The validator defined descriptive name for the work it does when validating data analyzed by this method.	The validator defined descriptive name for this method.	SamplePlusMethod
ValidatorProcedureID	Identifier	Validation	New to 5.1	The validator defined identifier for the validator=s standard operating procedure (SOP) for this method.	SamplePlusMethod
ValidatorProcedureName	Text	Validation	New to 5.1	Description of the validator=s standard operating procedure (SOP) for this method.	SamplePlusMethod

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
ValidatorQualifiers *Note: This was ValidationQualifers in 5.0	Text	Validation	A validator assigned string of single letter result qualifiers, based on client defined rules and values.	A validator assigned string of result qualifiers (usually a single character for each qualifier), based on client defined rules and values.	ReportedResult
ValidationQualifierDefinition	Text	Validation	New to 5.1	Definition for the qualifier(s) as reported in ValidationQualifiers. This data element would be used to report a single definition for a single qualifier. Additional ValidationQualifierDefinition data elements must be used when more than one qualifier is reported in ValidationQualifiers.	ReportedResult
ValidatorReceiptDateTimeZone	LimitedList	Validation	New to 5.1	Time zone for ValidatorReceiptDate.	SamplePlusMethod
ValidatorReportedDateTimeZone	LimitedList	Validation	New to 5.1	Time zone for ValidatorReportedDate.	Header
ValidatorResult	Numeric	Validation	New to 5.1	Validator assigned value for the analyte. This could be a >true as prepared= value, or a >measured value= or a >statistically determined value=.	ReportedResult

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
ValidatorResultEvaluation	Text	Validation	New to 5.1	Validator assigned evaluation of the laboratory ReportedResult based on client defined rules and values (e.g., >Acceptable=, >Check for Error=, >Not Acceptable=.	ReportedResult
ValidatorResultLimitHigh	Numeric	Validation	New to 5.1	Upper limit for the ValidatorResult. Units are the same as for ValidatorResult.	ReportedResult
ValidatorResultLimit2High	Numeric	Validation	New to 5.1	Secondary upper limit for the ValidatorResult. Units are the same as for ValidatorResult.	ReportedResult
ValidatorResultLimitLow	Numeric	Validation	New to 5.1	Lower limit for the ValidatorResult. Units are the same as for ValidatorResult.	ReportedResult
ValidatorResultLimit2Low	Numeric	Validation	New to 5.1	Secondary lower limit for the ValidatorResult. Units are the same as for ValidatorResult.	ReportedResult
ValidatorResultLimitType	LimitedList	Validation	New to 5.1	The source for the ValidatorResult limits.	ReportedResult

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
ValidatorResultLimit2Type	LimitedList	Validation	New to 5.1	The source for the ValidatorResult secondary limits.	ReportedResult
ValidatorResultUnits	LimitedList	Validation	New to 5.1	Units for ValidatorResult.	ReportedResult
ValidatorStudyDate	Date	Validation	New to 5.1	The date (and time, if required) this study was conducted. If this study was conducted over a range of dates, this is the start date. The study date is typically the time over which data is collected to evaluate the study statistical evaluation criteria for PT studies.	SamplePlusMethod
ValidatorStudyEndDate	Date	Validation	New to 5.1	If the study was conducted over a range of dates (and times, if required), the end of the study period.	SamplePlusMethod
ValidatorStudyID	Identifier	Validation	New to 5.1	The validator assigned code for this study.	SamplePlusMethod
ValidatorStudyName	Text	Validation	New to 5.1	The validator assigned name for this study.	SamplePlusMethod
ValidatorStudyType	LimitedList	Validation	New to 5.1	The validator assigned type of study performed.	SamplePlusMethod

DATA ELEMENT	FORMAT	CATEGORY	V 5.0 DEFINITION	V 5.1 DEFINITION	APPLICABLE NODES
ValidatorValidatedDate *Note: Was ValidatedDate in 5.0	Date	Validation	Date (and time, if required) the validation was completed.	Date (and time, if required) the validation was completed.	SamplePlusMethod
ValidatorValidatedDateTimeZone	LimitedList	Validation	New to 5.1	Time zone for ValidatorValidatedDate.	SamplePlusMethod
WeightingFactor	LimitedList	Description	The factor used to define how the regression analysis was applied to an initial calibration curve for a method(e.g., Inverse_Of_Concentration, Inverse_Square_Of_Concentration).	The factor used to define how the regression analysis was applied to an initial calibration curve for a method.	Analyte Peak